

*In the United States Patent and Trademark Office*

In re application of: <b>Jeffery Andle</b>	
For: <b>Multi Reflective Acoustic Wave Device</b>	
Serial No.~ Confirm: <b>10/620,934 ~ 8884</b>	Group: <b>2834</b>
Filed on: <b>Jul 16, 2003</b>	Examiner: <b>Mark osborne Budd</b>
Correspondence Date <b>July 18, 2005</b>	Docket: <b>0319US-BIODE</b>

**Information Disclosure Statement under 37 CFR 1.97**

Honorable Director for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted pursuant with 37 CFR §1.97, 1.98. It is requested that the information disclosed herein be made of record in this application. It is further requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other applications cross referencing, relying on the priority of, or otherwise related to the above-identified application.

The accompanying documents represent the closest information known to the applicant at this time, that was not previously disclosed to the Office, and is provided to indicate the state of the art in support of applicants' position as detailed in the enclosed amendment and response and appendix. In accordance with 37 CFR §1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that the information cited is, or is considered to be, material to patentability as defined in 37 CFR §1.56(b), nor should it be construed that any information cited herein or in the attached document is (or constitutes) "prior art" for this invention unless specifically otherwise indicated.

No explanation of relevance is necessary for documents in the English language (see 37 CFR 1.98(a)(3)(i)).

A credit card charge authorization form is provided to cover the fee required under rule 1.17(p). The director is hereby requested and authorized to charge any fee,

---

---

or credit any overpaid amount, to Deposit Account No. 501392, as needed to maintain the application in good standing in the Office.

In accordance with 37 CFR § 1.98, this IDS includes a list (e.g. form PTO-1449, or equivalent), together with copies, of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment thereto.

Consideration of the foregoing in relation to this application is respectfully requested.

Respectfully submitted



Shalom Wertsberger

Reg. Num 43,359

30 Fern Lane

South Portland, ME

04106

Phone: (207) 799-9733

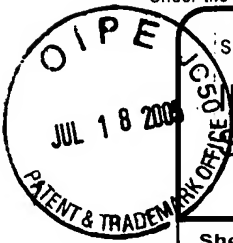
Fax: (207) 767-5324

Agent for Applicant

Please type a plus sign (+) inside this box ☐

PTO/SB/08B (10-96)  
Approved for use through 10/31/99. OMB0651-0031  
Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

### Complete if Known

Application Number	10/620,934
Filing Date	July 16, 2003
First Named Inventor	Jeffrey C. Andle
Group Art Unit	2834
Examiner Name	Mark Osborne Budd
Attorney Docket Number	0319US-BIODE

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers, publisher, city and/or country where published.	T2
		'Saw Resonator 2-Pole Filters', E.J. Staples, J. Wise, J.S. Schoenwald and T.C. Lim, Proc. 234th Ann. Freq. control symposium pp. 273-277, USAERADCOM, Ft. Monmouth, NJ, May 1980.	
		'Multipole Saw Resonator Filters: Elements of Design and Fabrication', William J. Tanski, 1981 Ultrasonics Symposium pp. 100-104, 0090-5607/81/0000-0100.	
		'Multipole Saw Resonator Filters', William J. Tanski, 36th Annual Frequency Control Symposium-1982 pp. 400-404.	
		'1500 MHz Coupled Resonator Filter', M.B. King, L.W. Heep, J.C. Andle, 1987 Ultrasonic Symposium pp. 127-130.	
		'Reflective Arrays for SAW Resonators', Peter S. Cross, 1975 Ultrasonics Symposium Proceedings, IEEE Cat. No. 75 CHO pp. 994-4SU 241-244.	
		'A study of the Property and Potential Application of Acoustic-Surface-Wave resonators', G.L. Matthaui, F. Barman, E. B. Savage, and B.P. O'shaughnessy, 1975 Ultrasonics Symposium Proceedings, IEEE Cat. # 75 CHO 994-4SU pp. 284-289.	
		'Surface Acoustic Wave Resonators on ST-Quartz', E.J. Staples and R.C. Smyth, 1975 Ultrasonics Symposium Proceedings, IEEE Cat. #75 CHO 994-4SU pp. 307-310.	
		'UHF Surface Acoustic Wave Resonators', E. J. Staples, 1974 IEEE Frequency Control Symposium, pp. 280-285.	
		'Surface Acoustic Wave Resonators Constructed of Aluminum on ST Quartz for Use in High Stability Feed Back Oscillators', F.G. Marshal, 1975 Ultrasonics Symposium Proceedings, IEEE Cat.#75, CHO 994-4SU pp. 290-292.	
		'Design and Application of Two-Port SAW Resonators on YZ-Lithium Niobate', Peter S. Cross, William H. Haydal, and Robin S. Smith, Proceedings of the IEEE, Vol 64, No. 5, May 1976, pp. 682-685.	
		'Synchronous IDT SAW Resonators with Q above 10,000', Peter R. Cross, William R. Shreve, and Tun Sein Tan, 1979 Ultrasonics Symposium pp. 824-829, CH148-9/79/0000-0824.	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

† Unique citation designation number. ‡ Applicant is to place a check mark here if English language Translation is attached.

Burden our Statement This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box ☐

PTO/SB/08B (10-96)  
Approved for use through 10/31/99. OMB0651-0031  
Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		<b>Application Number</b>	<b>10/620,934</b>		
		<b>Filing Date</b>	<b>July 16, 2003</b>		
		<b>First Named Inventor</b>	<b>Jeffrey C. Andle</b>		
		<b>Group Art Unit</b>	<b>2834</b>		
		<b>Examiner Name</b>	<b>Mark Osborne Budd</b>		
<b>Sheet</b>	<b>2</b>	<b>of</b>	<b>2</b>	<b>Attorney Docket Number</b>	<b>0319US-BIODE</b>

<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>			
<b>Examiner Initials*</b>	<b>Cite No.†</b>	<b>Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers), publisher, city and/or country where published.</b>	<b>T2</b>
		'Multimode SAW Resonators - a Method to Study The Optimum Resonator Design' W. H. Haydl, B. Dischler, P. Hiesinger, 19756 Ultrasonics Symposium Proceedings pp. 287-296, IEEE Cat. # 76 CH1120- 5SU.	
		'GHz SAW Resonators', William J. Tanski, 1979 Ultrasonics Symposium pp. 815-823, Ch182-9/79-0000-0815.	
		'SAW Resonators and Coupled Resonator Filters', E.J. Staples and R. C. Smythe, 1976 IEEE Frequency Control Symposium, pp. 322-327.	
		'The Design of SAW Resonators on Quartz with Emphasis on Tow Ports', William J. Tanski and Herman van de Vaart, 1976 IEEE Ultrasonics Symposium, pp. 260-265.	
		'Surface Acoustic Wave Resonator Development' J. S. Schoenwald, W. R. Shreve and R.C. Rosenfeld, 1975 IEEE Frequency Control Symposium, pp. 150-157.	

<b>Examiner Signature</b>		<b>Date Considered</b>	
-------------------------------	--	----------------------------	--

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

† Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

Burden our Statement This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Washington, DC 20231.